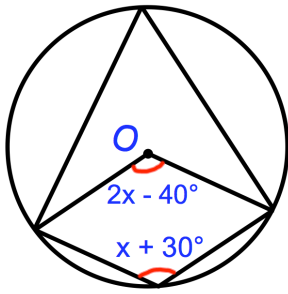


11th February



Corbettmaths

Work out the size of  $x$ 

Solve the simultaneous equations

$$x + 2y - 4z = -13$$

$$7x + 4y + 6z = 14$$

$$3x - y + 2z = 10$$

The curve C has equation  
 $y = -x^3 + 12x^2 - 36x$

Work out the coordinates of any stationary point on this curve and determine their nature